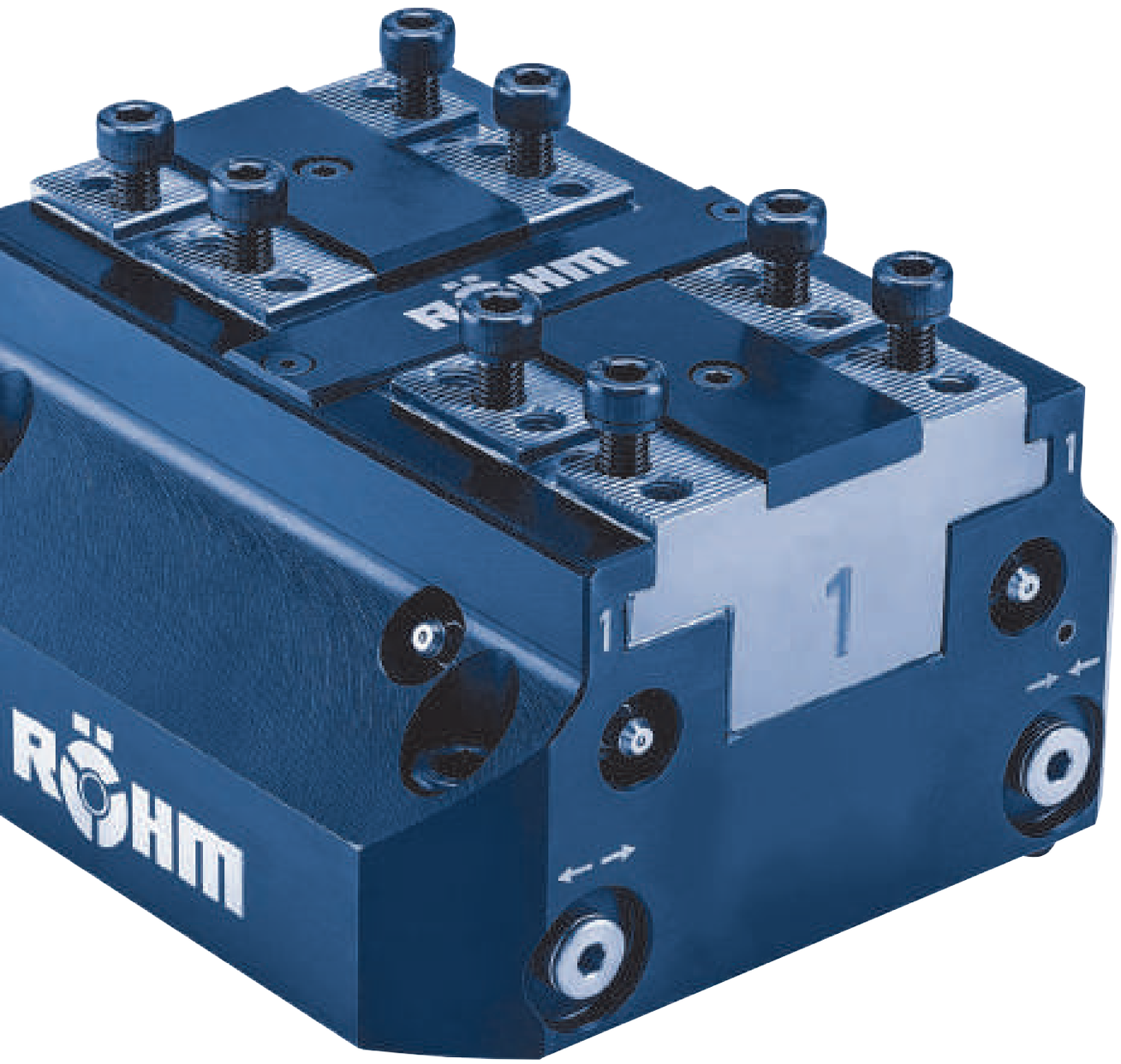



## IDEAL FOR STATIONARY USE

The stationary power clamping devices from RÖHM are predestined for stationary, centric clamping of round and angular workpieces on milling machines or machining centers or for the rational clamping in automated work sequences.

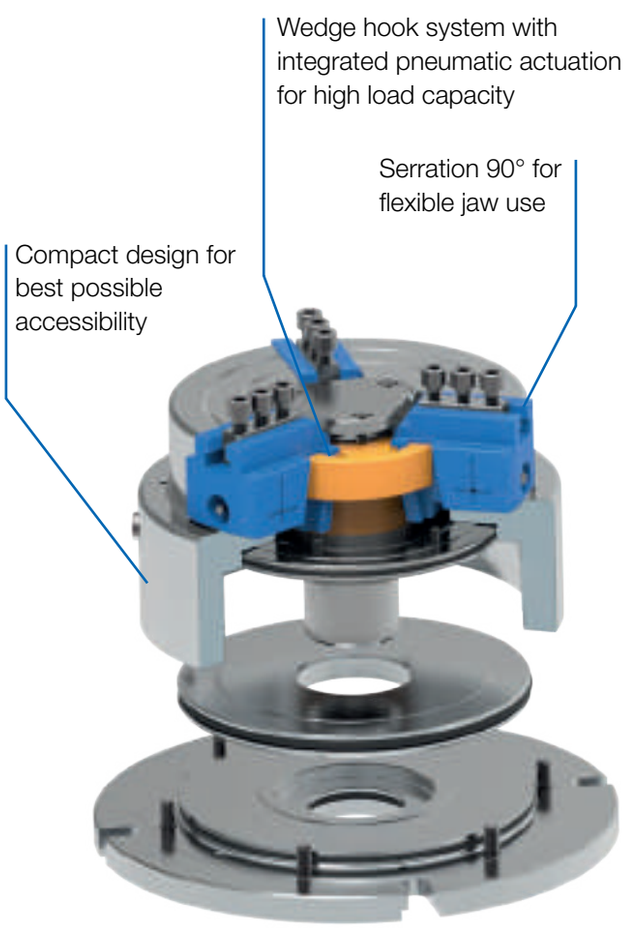
Stationary application

# STATIONARY POWER CLAMPING DEVICES

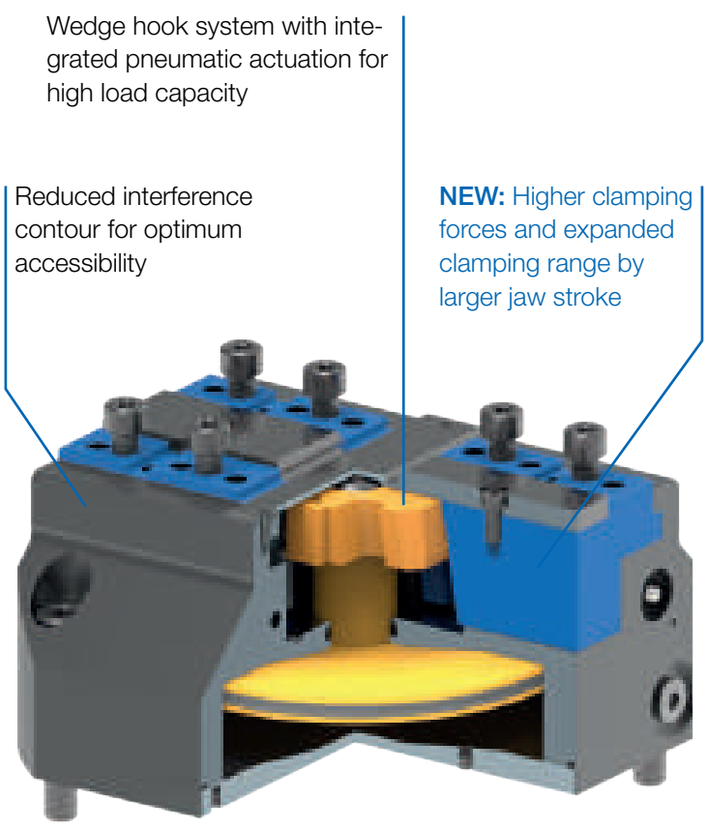
Stationary power clamping devices are characterized by many product advantages, which are essential for stationary, centric clamping on milling machines or machining centers or for the rational clamping in automated work sequences: Compact design for best possible work area utilization, high repeatability and constant clamping force at the same pressure, as well as maximum flexibility thanks to the centric clamping of round and angular workpieces.

## ADVANTAGES AT A GLANCE

- High efficiency thanks to automated and fast clamping in stationary use
- Wedge hook system for high load capacity and clamping precision
- Flexible use thanks to centric clamping of angular and round components




Stationary power chuck SSP




Pneumatically-operated centering vice KZS-P

Power-operated centering vices

# KZS-P

## APPLICATION

Optimally suited for use in 3-, 4- and 5-axis machining centers as well as on all common zero-point clamping systems

## TYPE

Pneumatically actuated centering vice in standard design.
Optionally with inductive sensors. 2-jaws version.

## CUSTOMER BENEFITS

- Jaw stroke expanded by up to 20% for a larger clamping range
- Highest clamping forces of up to 55 kN, optimal results and process reliability through precision wedge hook system
- Optimized lubrication system for constantly high clamping forces
- Compact design with reduced interfering contours for optimum workpiece accessibility, ideal working space utilization and optimum chip flow
- Sturdy and low-backlash jaw guides for high repeatability

## TECHNICAL FEATURES

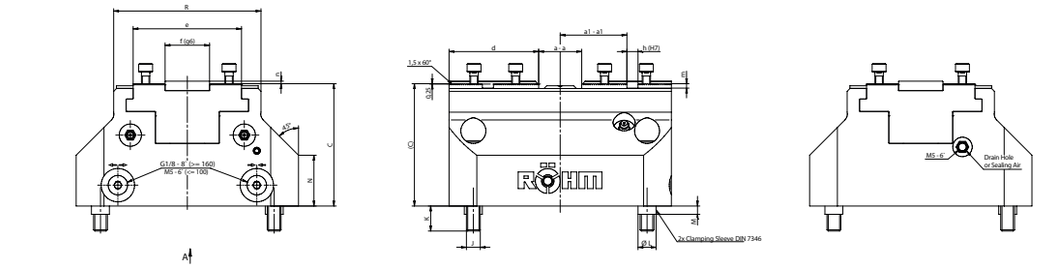
- Jaws with cross tenon and serration

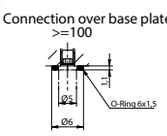
**KZS-P** = power-operated, centering, vice, pneumatically

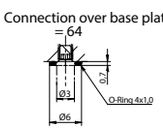

The power-operated centering vices are also available with integrated stroke sensor, which serves for clamping control and ensures optimum process monitoring and thus optimal process reliability.

Power-operated centering vices

# KZS-P




Power-operated centering vice **KZS-P (standard jaw stroke)**, basic jaws with **serration 1.5 x 60°** and **cross-tenon interface**

| Item No. | 181480 | 181482 | 181486 | 181490 | 181494 |
|---|---|---|---|---|---|
| Item No. with inductive sensors | 181580 ▲ | 181582 ▲ | 181586 ▲ | 181590 ▲ | 181594 ▲ |
| Size | KZS-P 64 | KZS-P 100 | KZS-P 160 | KZS-P 200 | KZS-P 250 |
| A1 mm | 64 | 100 | 160 | 200 | 250 |
| Jaw stroke B mm | 2.3 | 2.3 | 3.5 | 4.8 | 6 |
| C mm | 50.7 | 69.2 | 82.2 | 90.2 | 98.2 |
| D H7 mm | 4 - 7.5T | 6 - 12T | 8 - 14T | 8 - 14T | 10 - 20T |
| E±0.01 mm | 36 | 90 | 146 | 184 | 230 |
| F±0.01 mm | 56 | 64 | 106 | 146 | 154 |
| G±0.04 mm | 50 | 80 | 125 | 160 | 200 |
| H±0.04 mm | 50 | 80 | 125 | 160 | 200 |
| J mm | M6 | M8 | M10 | M10 | M12 |
| K mm | 12 | 15 | 18 | 18 | 20 |
| L mm | 8 | 11 | 13 | 13 | 16 |
| M mm | 4 | 4.5 | 6 | 6 | 6 |
| N mm | 26.2 | 34.8 | 31.5 | 34.2 | 35.7 (50°) |
| O mm | 17 | 32 | 40 | 50 | 64 |
| P mm | 17 | 29.5 | 50 | 65 | 75 |
| Q mm | 84 | 130 | 200 | 250 | 310 |
| R mm | 45 | 68 | 106 | 140 | 166 |
| S mm | 21.1 | 34.5 | 59.7 | 72.5 | 92.6 |
| T mm | 33.6 | 55 | 82 | 110 | 139.6 |
| V mm | -27.5 | 44 | 74 | 817.7 | 110.8 |
| W mm | 0 | 25.5 | 32 | 48 | 60 |
| a mm | 12.8 - 17.4 | 20.4 - 25 | 24 - 31 | 34.4 - 44 | 34 - 46 |
| a1 mm | 12.9 - 15.2 | 25.7 - 28 | 44.5 - 48 | 53.2 - 58 | 55 - 61 |
| a2 mm | 9.9 - 12.2 | 14.7 - 17 | 18.5 - 22 | 32 - 27.2 | 24 - 30 |
| b mm | 4.8 | 5 | 8 | 8 | 11 |
| c mm | 5 | 7 | 10 | 10 | 12 |
| d mm | 23.3 | 37.5 | 64.5 | 78 | 102 |
| e mm | 30 | 47 | 78 | 102 | 125 |
| $f^{g6}$ mm | 14 | 20 | 32 | 40 | 50 |
| g mm | 24 | 35 | 60 | 80 | 90 |
| $h^{H7}$ mm | 4 | 6 | 8 | 8 | 10 |
| k | M4 - 7T | M6 - 9T | M8 - 12T | M8 - 16T | M10 - 19T |
| k1 | 4 | 5 | 6 | 7 | 8 |
| m mm | 2.7 | 2.7 | 3.2 | 3.2 | 4 |
| n mm | 1.8 | 1.8 | 1.8 | 2.3 | 2.3 |
| o mm | M3 | M4 | M5 | M6 | M6 |
| p mm | M3 | M4 | M5 | M5 | M5 |
| Max. operating pressure bar | 9 | 9 | 9 | 9 | 6 |
| Max. total clamping force kN | 4.6 | 18 | 45 | 52 | 55 |
| Weight kg | 1.15 | 3.6 | 10.3 | 18.5 | 30.4 |
| Cylinder volume (double stroke) $cm^3$ | 38 | 180 | 600 | 900 | 1760 |
| Closing time s | 0.1 | 0.25 | 0.5 | 0.6 | 1.1 |
| Clamping repeatability mm | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 |



▲ on request

Power-operated centering vices

# KZS-PG - large jaw stroke

## APPLICATION

Optimally suited for use in 3-, 4- and 5-axis machining centers as well as on all common zero-point clamping systems

## TYPE

Pneumatically actuated centering vice with large jaw stroke.
Optionally with inductive sensors. 2-jaws version.

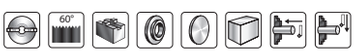
## CUSTOMER BENEFITS

- Jaw stroke expanded by up to 20% for a larger clamping range
- Highest clamping forces of up to 55 kN, optimal results and process reliability through precision wedge hook system
- Optimized lubrication system for constantly high clamping forces
- Compact design with reduced interfering contours for optimum workpiece accessibility, ideal working space utilization and optimum chip flow
- Sturdy and low-backlash jaw guides for high repeatability

## TECHNICAL FEATURES

- Jaws with cross tenon and serration

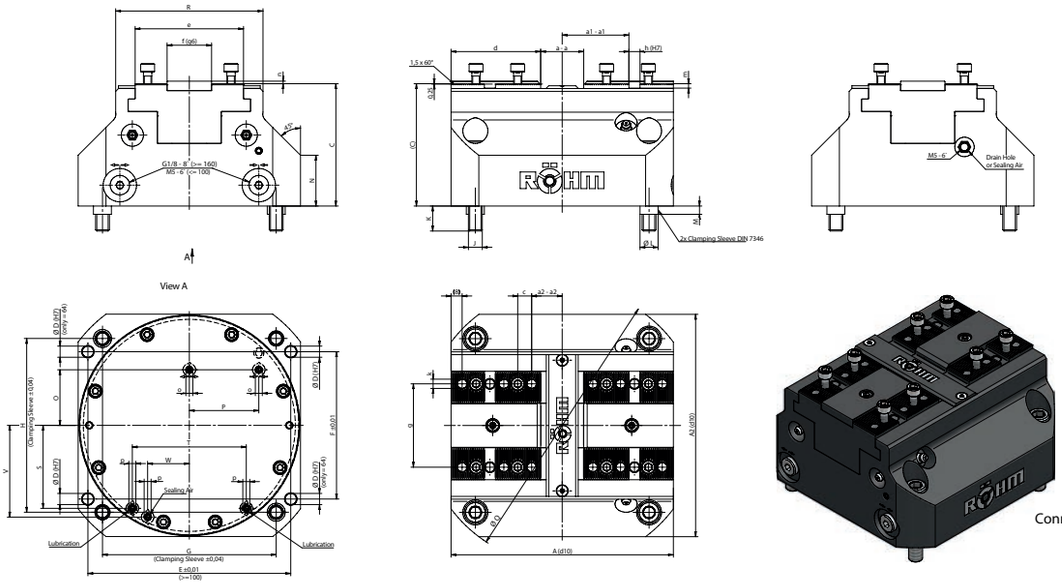
**KZS-PG** = power-operated, centering, vice, pneumatically, large jaw stroke




The power-operated centering vices are also available with integrated stroke sensor, which serves for clamping control and ensures optimum process monitoring and thus optimal process reliability.

Power-operated centering vices

# KZS-PG - large jaw stroke





Power-operated centering vice **KZS-PG (large jaw stroke)**, basic jaws with **serration 1.5 x 60°** and **cross-tenon interface**

| Item No. | 181483 | 181487 | 181491 | 181495 |
|---|---|---|---|---|
| Item No. with inductive sensors | 181583 ▲ | 181587 ▲ | 181591 ▲ | 181595 ▲ |
| Size | KZS-PG 100 | KZS-PG 160 | KZS-PG 200 | KZS-PG 250 |
| A1 mm | 100 | 160 | 200 | 250 |
| Jaw stroke B mm | 7 | 9.5 | 12.1 | 17.6 |
| C mm | 69.2 | 82.2 | 90.2 | 98.2 |
| D H7 mm | 6 - 12T | 8 - 14T | 8 - 14T | 10 - 20T |
| E±0.01 mm | 90 | 146 | 184 | 230 |
| F±0.01 mm | 64 | 106 | 146 | 154 |
| G±0.04 mm | 80 | 125 | 160 | 200 |
| H±0.04 mm | 80 | 125 | 160 | 200 |
| J mm | M8 | M10 | M10 | M12 |
| K mm | 15 | 18 | 18 | 20 |
| L mm | 11 | 13 | 13 | 16 |
| M mm | 4.5 | 6 | 6 | 6 |
| N mm | 34.8 | 31.5 | 34.2 | 35.7 (50°) |
| O mm | 32 | 40 | 50 | 64 |
| P mm | 29.5 | 50 | 65 | 75 |
| Q mm | 130 | 200 | 250 | 310 |
| R mm | 68 | 106 | 140 | 166 |
| S mm | 34.5 | 59.7 | 72.5 | 92.6 |
| T mm | 55 | 82 | 110 | 139.6 |
| V mm | 44 | 74 | 817.7 | 110.8 |
| W mm | 25.5 | 32 | 48 | 60 |
| a mm | 20.2 - 33 | 25 - 44 | 32 - 56.2 | 41 - 76.2 |
| a1 mm | 25.5 - 32.5 | 44.8 - 54.3 | 54.5 - 66.6 | 51.5 - 69.1 |
| a2 mm | 14.5 - 21.5 | 18.8 - 28.3 | 28.5 - 40.6 | 32.5 - 50.1 |
| b mm | 7.5 | 11.2 | 11.5 | 15 |
| c mm | 7 | 10 | 10 | 12 |
| d mm | 40.5 | 67.5 | 81 | 99 |
| e mm | 47 | 78 | 102 | 125 |
| $f^{g6}$ mm | 20 | 32 | 40 | 50 |
| g mm | 35 | 60 | 80 | 90 |
| $h^{H7}$ mm | 6 | 8 | 8 | 10 |
| k | M6 - 9T | M8 - 12T | M8 - 16T | M10 - 19T |
| k1 | 5 | 6 | 7 | 7 |
| m mm | 2.7 | 3.2 | 3.2 | 4 |
| n mm | 1.8 | 1.8 | 2.3 | 2.3 |
| o mm | M4 | M5 | M6 | M6 |
| p mm | M4 | M5 | M5 | M5 |
| Max. operating pressure bar | 9 | 9 | 9 | 6 |
| Max. total clamping force kN | 8 | 20 | 24 | 21 |
| Weight kg | 3.65 | 10.5 | 18.9 | 30.4 |
| Cylinder volume (double stroke) $cm^3$ | 180 | 600 | 900 | 1760 |
| Closing time s | 0.25 | 0.5 | 0.6 | 1.1 |
| Clamping repeatability mm | 0.01 | 0.02 | 0.03 | 0.03 |

Power-operated centering vices

# Jaws KZS-P / KZS-PG

C 21
**Soft top jaws, 2-jaw set, can be hardened serration 60°** - material: 16MnCr5

| Item no. | Size | Jaw length mm | Jaw height mm | Jaw width mm |
|---|---|---|---|---|
| **166138** | 64 | 25 | 20 | 34 |
| **166140** | 100 | 42 | 25 | 55 |
| **166142** | 160 | 60 | 40 | 80 |
| **166144** | 200 | 75 | 45 | 100 |
| **166146** | 250 | 90 | 50 | 125 |

C 21
**Soft top jaws, 2-jaw set tongue and groove, high design,** material: 16MnCr5


| Item no. | Size | Jaw length mm | Jaw height mm | Jaw width mm |
|---|---|---|---|---|
| **166126** | 64 | 28,5 | 35 | 34 |
| **166128** | 100 | 47 | 48 | 55 |
| **166130** | 160 | 76 | 77,5 | 80 |
| **166132** | 200 | 96 | 85 | 100 |
| **166134** | 250 | 120 | 100 | 125 |

# Accessories KZS-P / KZS-PG

A09 **Special grease** F80 for **lathe chucks**
For lubrication and conservation of chucking power

| Item no. | Design | Contents |
|---|---|---|
| **308555** | Cartridge (DIN 1284)<br>Ø 53.5x235mm | 0,5 kg |
| **028975** | Tin | 1 kg |

C15 **Grease gun DIN1283**

| Item no. | Connection | Contents of delivery |
|---|---|---|
| **329093** | M10x1 | 150 mm nozzle tube bent, needlepoint mouthpiece, top mouthpiece, 300 mm high pressure hose with 4 jaw hydraulics cross mouthpiece |

Power-operated centering vices

# KZS-H

## APPLICATION

Optimally suited for use in 3-, 4- and 5-axis machining centers as well as on all common zero-point clamping systems

## TYPE

Hydraulically actuated centering vice in standard design.
Optionally with inductive sensors. 2-jaws version.

## CUSTOMER BENEFITS

- Jaw stroke expanded by up to 20% for a larger clamping range
- Highest clamping forces of up to 55 kN, optimal results and process reliability through precision wedge hook system
- Optimized lubrication system for constantly high clamping forces
- Compact design with reduced interfering contours for optimum workpiece accessibility, ideal working space utilization and optimum chip flow
- Sturdy and low-backlash jaw guides for high repeatability

## TECHNICAL FEATURES

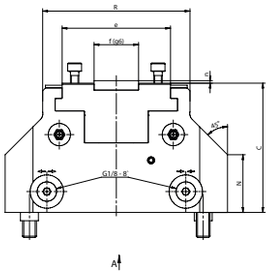
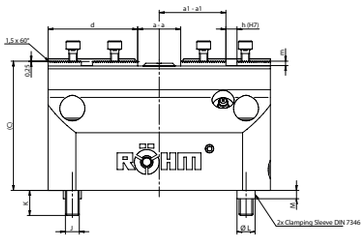
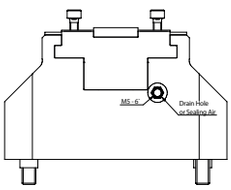
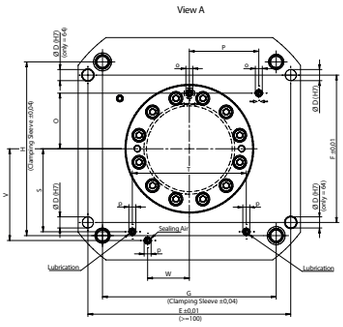
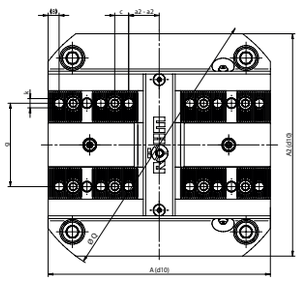
- Jaws with cross tenon and serration

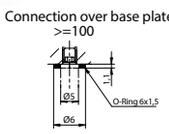
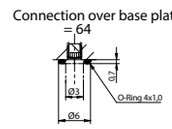
**KZS-H** = power-operated, centering, vice, hydraulically


The power-operated centering vices are also available with integrated stroke sensor, which serves for clamping control and ensures optimum process monitoring and thus optimal process reliability.

Power-operated centering vices

# KZS-H

Power-operated centering vice **KZS-H (standard jaw stroke),** basic jaws with **serration 1.5 x 60°** and **cross-tenon interface**

| Item No. | 181481 | 181484 | 181488 |
|---|---|---|---|
| Item No. with inductive sensors | 181581 ▲ | 181584 ▲ | 181588 ▲ |
| Size | KZS-H 64 | KZS-H 100 | KZS-H 160 |
| A1 mm | 64 | 100 | 160 |
| Jaw stroke B mm | 2.3 | 2.3 | 3.5 |
| C mm | 55.7 | 74.2 | 87.2 |
| D H7 mm | 4 - 7.5T | 6 - 12T | 8 - 14T |
| E±0.01 mm | 36 | 90 | 146 |
| F±0.01 mm | 56 | 64 | 106 |
| G±0.04 mm | 50 | 80 | 125 |
| H±0.04 mm | 50 | 80 | 125 |
| J mm | M6 | M8 | M10 |
| K mm | 12 | 15 | 18 |
| L mm | 8 | 11 | 13 |
| M mm | 4 | 4.5 | 6 |
| N mm | 31.2 | 39.8 | 36.5 |
| O mm | 17 | 32 | 40 |
| P mm | 17 | 29.5 | 50 |
| Q mm | 84 | 130 | 200 |
| R mm | 45 | 68 | 106 |
| S mm | 21.1 | 34.5 | 59.7 |
| T mm | 33.6 | 55 | 82 |
| V mm | -27.5 | 44 | 74 |
| W mm | 0 | 25.5 | 32 |
| a mm | 12.8 - 17.4 | 20.4 - 25 | 24 - 31 |
| a1 mm | 12.9 - 15.2 | 25.7 - 28 | 44.5 - 48 |
| a2 mm | 9.9 - 12.2 | 14.7 - 17 | 18.5 - 22 |
| b mm | 4.8 | 5 | 8 |
| c mm | 5 | 7 | 10 |
| d mm | 23.3 | 37.5 | 64.5 |
| e mm | 30 | 47 | 78 |
| f g6 mm | 14 | 20 | 32 |
| g mm | 24 | 35 | 60 |
| h H7 mm | 4 | 6 | 8 |
| k | M4 - 7T | M6 - 9T | M8 - 12T |
| k1 | 4 | 5 | 6 |
| m mm | 2.7 | 2.7 | 3.2 |
| n mm | 1.8 | 1.8 | 1.8 |
| o mm | M3 | M4 | M5 |
| p mm | M3 | M4 | M5 |
| Max. operating pressure bar | 60 | 60 | 60 |
| Max. total clamping force kN | 4.5 | 18 | 45 |
| Weight kg | 1.45 | 4.55 | 13.3 |
| Cylinder volume (double stroke) cm³ | 7 | 30 | 100 |
| Closing time s | 0.4 | 1.1 | 1.6 |
| Clamping repeatability mm | 0.01 | 0.01 | 0.02 |



▲ on request

Power-operated centering vices

# KZS-HG - large jaw stroke

## APPLICATION

Optimally suited for use in 3-, 4- and 5-axis machining centers as well as on all common zero-point clamping systems

## TYPE

Hydraulically actuated centering vice with large jaw stroke.
Optionally with inductive sensors. 2-jaws version.

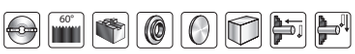
## CUSTOMER BENEFITS

- Jaw stroke expanded by up to 20% for a larger clamping range
- Highest clamping forces of up to 55 kN, optimal results and process reliability through precision wedge hook system
- Optimized lubrication system for constantly high clamping forces
- Compact design with reduced interfering contours for optimum workpiece accessibility, ideal working space utilization and optimum chip flow
- Sturdy and low-backlash jaw guides for high repeatability

## TECHNICAL FEATURES

- Jaws with cross tenon and serration

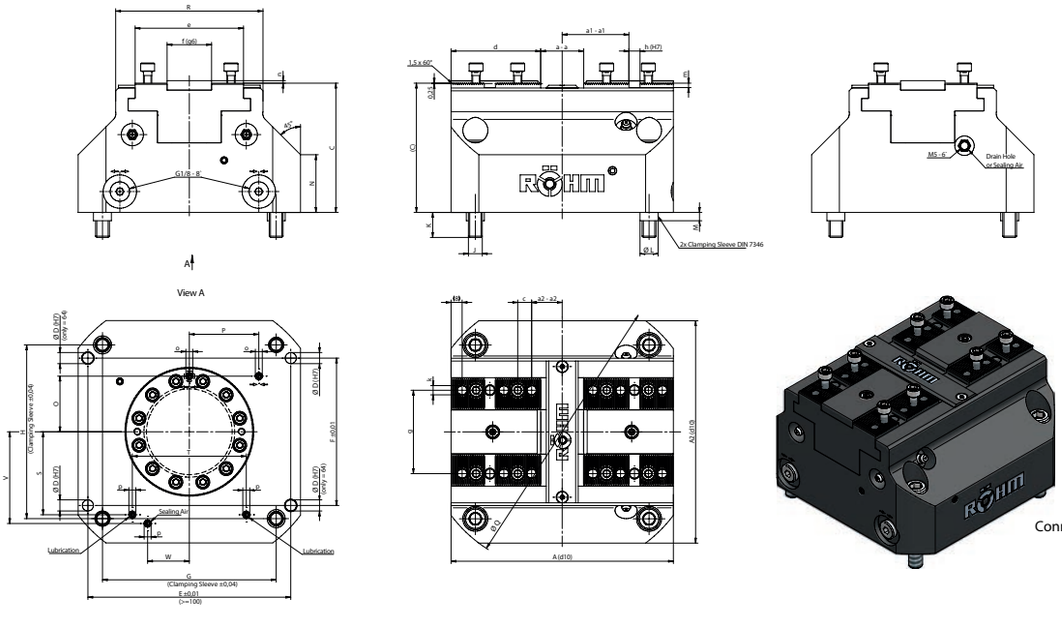
**KZS-HG** = power-operated, centering, vice, hydraulically, large jaw stroke




The power-operated centering vices are also available with integrated stroke sensor, which serves for clamping control and ensures optimum process monitoring and thus optimal process reliability.

Power-operated centering vices

# KZS-HG - large jaw stroke




Power-operated centering vice **KZS-HG (large jaw stroke),** basic jaws with **serration 1.5 x 60°** and **cross-tenon interface**

| Item No. | 181485 | 181489 | 181493 | 181497 |
|---|---|---|---|---|
| Item No. with inductive sensors | 181585 ▲ | 181589 ▲ | 181593 ▲ | 181597 ▲ |
| Size | KZS-HG 100 | KZS-HG 160 | KZS-HG 200 | KZS-HG 250 |
| A1 mm | 100 | 160 | 200 | 250 |
| Jaw stroke B mm | 7 | 9.5 | 12.1 | 17.6 |
| C mm | 74.2 | 87.2 | 95.2 | 103.2 |
| D H7 mm | 6 - 12T | 8 - 14T | 8 - 14T | 10 - 20T |
| E±0.01 mm | 90 | 146 | 184 | 180 |
| F±0.01 mm | 64 | 106 | 146 | 200 |
| G±0.04 mm | 80 | 125 | 160 | 180 |
| H±0.04 mm | 80 | 125 | 160 | 200 |
| J mm | M8 | M10 | M10 | M12 |
| K mm | 15 | 18 | 18 | 20 |
| L mm | 11 | 13 | 13 | 16 |
| M mm | 4.5 | 6 | 6 | 6 |
| N mm | 39.8 | 36.5 | 39.2 | 57.5 (50°) |
| O mm | 32 | 40 | 50 | 80 |
| P mm | 29.5 | 50 | 65 | 45 |
| Q mm | 130 | 200 | 250 | 310 |
| R mm | 68 | 106 | 140 | 166 |
| S mm | 34.5 | 59.7 | 72,5 | 50 |
| T mm | 55 | 82 | 110 | 140 |
| V mm | 44 | 74 | 87.7 | 70 |
| W mm | 25.5 | 32 | 48 | 50 |
| a mm | 20.2 - 33 | 25 - 44 | 32 - 56.2 | 41 - 76.2 |
| a1 mm | 25.5 - 32.5 | 44.8 - 54.3 | 54.5 - 66.6 | 51.5 - 69.1 |
| a2 mm | 14.5 - 21.5 | 18.8 - 28.3 | 28.5 - 40.6 | 32.5 - 50.1 |
| b mm | 7.5 | 11.2 | 11.5 | 15 |
| c mm | 7 | 10 | 10 | 12 |
| d mm | 40.5 | 67.5 | 81 | 99 |
| e mm | 47 | 78 | 102 | 125 |
| f g6 mm | 20 | 32 | 40 | 50 |
| g mm | 35 | 60 | 80 | 90 |
| h H7 mm | 6 | 8 | 8 | 10 |
| k | M6 - 9T | M8 - 12T | M8 - 16T | M10 - 19T |
| k1 | 5 | 6 | 7 | 7 |
| m mm | 2.7 | 3.2 | 3.2 | 4 |
| n mm | 1.8 | 1.8 | 2.3 | 2.3 |
| o mm | M4 | M5 | M6 | M6 |
| p mm | M4 | M5 | M5 | M5 |
| Max. operating pressure bar | 120 | 120 | 60 | 60 |
| Max. total clamping force kN | 16 | 40 | 50 | 50 |
| Weight kg | 4.65 | 13.5 | 22.9 | 35.2 |
| Cylinder volume (double stroke) $cm^3$ | 30 | 100 | 300 | 420 |
| Closing time s | 1.1 | 1.6 | 2.1 | 3 |
| Clamping repeatability mm | 0.01 | 0.02 | 0.03 | 0.03 |

Power-operated centering vices

# Jaws KZS-H / KZS-HG

C 21
**Soft top jaws, 2-jaw set, can be hardened serration 60°** - material: 16MnCr5

| Item no. | Size | Jaw length mm | Jaw height mm | Jaw width mm |
|---|---|---|---|---|
| **166138** | 64 | 25 | 20 | 34 |
| **166140** | 100 | 42 | 25 | 55 |
| **166142** | 160 | 60 | 40 | 80 |
| **166144** | 200 | 75 | 45 | 100 |
| **166146** | 250 | 90 | 50 | 125 |

C 21
**Soft top jaws, 2-jaw set tongue and groove, high design,** material: 16MnCr5


| Item no. | Size | Jaw length mm | Jaw height mm | Jaw width mm |
|---|---|---|---|---|
| **166126** | 64 | 28,5 | 35 | 34 |
| **166128** | 100 | 47 | 48 | 55 |
| **166130** | 160 | 76 | 77,5 | 80 |
| **166132** | 200 | 96 | 85 | 100 |
| **166134** | 250 | 120 | 100 | 125 |

# Accessories KZS-H / KZS-HG

A09 **Special grease** F80 for **lathe chucks**
For lubrication and conservation of chucking power

| Item no. | Design | Contents |
|---|---|---|
| **308555** | Cartridge (DIN 1284)<br>Ø 53.5x235mm | 0,5 kg |
| **028975** | Tin | 1 kg |

C15 **Grease gun DIN1283**

| Item no. | Connection | Contents of delivery |
|---|---|---|
| **329093** | M10x1 | 150 mm nozzle tube bent, needlepoint mouthpiece, top mouthpiece, 300 mm high pressure hose with 4 jaw hydraulics cross mouthpiece |